

We claim:

1. An opto-electronic assembly for receiving optical signals, comprising:

at least two detectors each with an optically active area for converting optical signals into electrical signals, said at least two detectors being arranged on one another, and said optically active area of one of said detectors is shielded.

2. The opto-electronic assembly according to claim 1, which further comprises a carrier supporting one of said detectors.

3. The opto-electronic assembly according to claim 1, wherein said active areas of said detectors point in mutually opposite directions.

4. The opto-electronic assembly according to claim 2, wherein said active area of one of said detectors is disposed directly opposite said carrier and is thereby shielded from optical signals.

5. The opto-electronic assembly according to claim 1, wherein said active areas of said detectors point in a same direction, and said active area of one detector is shielded by the respectively other detector.

6. The opto-electronic assembly according to claim 1, which comprises an intermediate layer disposed between said detectors.

7. The opto-electronic assembly according to claim 2, which comprises at least one intermediate layer disposed between one of said detectors and said carrier.

8. The opto-electronic assembly according to claim 2, wherein said carrier is formed with at least one optically transparent opening, and said opening is functionally associated with said active area of the unshielded detector.

9. The opto-electronic assembly according to claim 1, which comprises optically dense material darkening said optically active area of one detector.

10. The opto-electronic assembly according to claim 1, wherein said optically dense material is a sprayed compound.

11. The opto-electronic assembly according to claim 1, wherein said detectors have substantially identical active areas.

12. The opto-electronic assembly according to claim 1, wherein said detectors have similar active areas.

13. The opto-electronic assembly according to claim 1, which comprises an evaluation device connected to said detectors for evaluate detector signals.

14. The opto-electronic assembly according to claim 13, wherein said evaluation device has at least one differential amplifier.

15. The opto-electronic assembly according to claim 1, wherein said detectors are photodiodes.

16. The opto-electronic assembly according to claim 15, wherein said photodiodes have cathode and anode contacts for making electrical contact, and said cathode contacts of said at least two photodiodes being arranged on one another in an electrically conductive manner.